

Written By: Walter Galan



INTRODUCTION

Is the right side of your MacBook Pro mute? Use this guide to replace the subwoofer & right speaker assembly.



TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [Tri-point Y0 Screwdriver](#) (1)



PARTS:

- [MacBook Pro 15" Unibody \(Mid 2010 through Mid 2012\) Subwoofer/Right Speaker](#) (1)

Step 1 — Lower Case



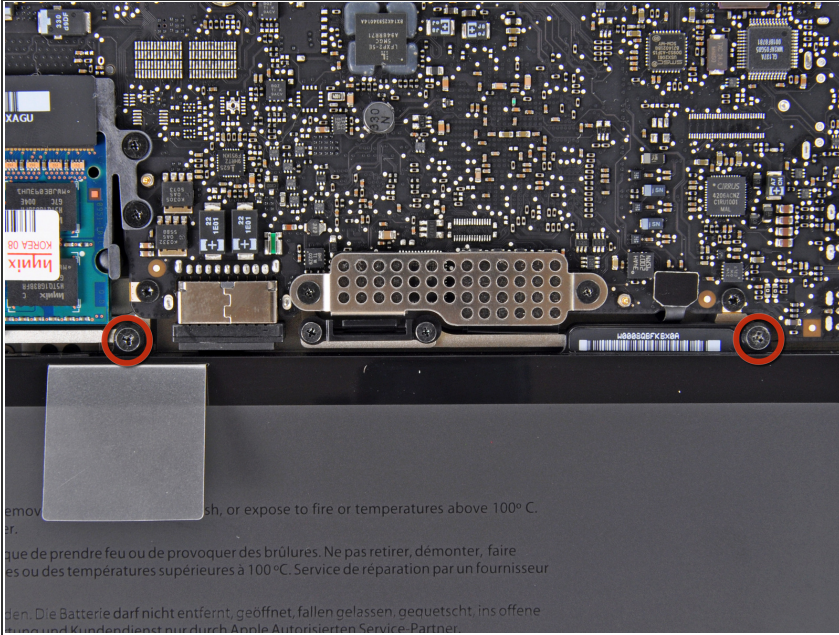
- Remove the following ten screws securing the lower case to the upper case:
 - Three 13.5 mm (14.1 mm) Phillips screws.
 - Seven 3 mm Phillips screws.

Step 2



- Using both hands, lift the lower case near the vent to pop it off two clips securing it to the upper case.
- Remove the lower case and set it aside.

Step 3 — Battery



- Remove the two 7.4 mm Tri-point screws securing the battery to the upper case.
- Note: For certain repairs (e.g. hard drive), removing the battery is not necessary but it prevents any accidental shorting of electronics on the motherboard. If you do not remove the battery, please be careful as parts of the motherboard might be electrified.
- ⓘ You do not necessarily have to follow steps 3-6 to remove the battery in order to replace the hard drive. However it is recommended to remove all power sources from electronics before working on them.

Step 4



- Use the tip of your finger to carefully peel back the corner of the warning label to reveal a hidden Tri-point screw.
- Remove the last 7.4 mm Tri-point screw securing the battery to the upper case.

Step 5



- Lift the battery by its plastic pull tab and slide it away from the long edge of the upper case.

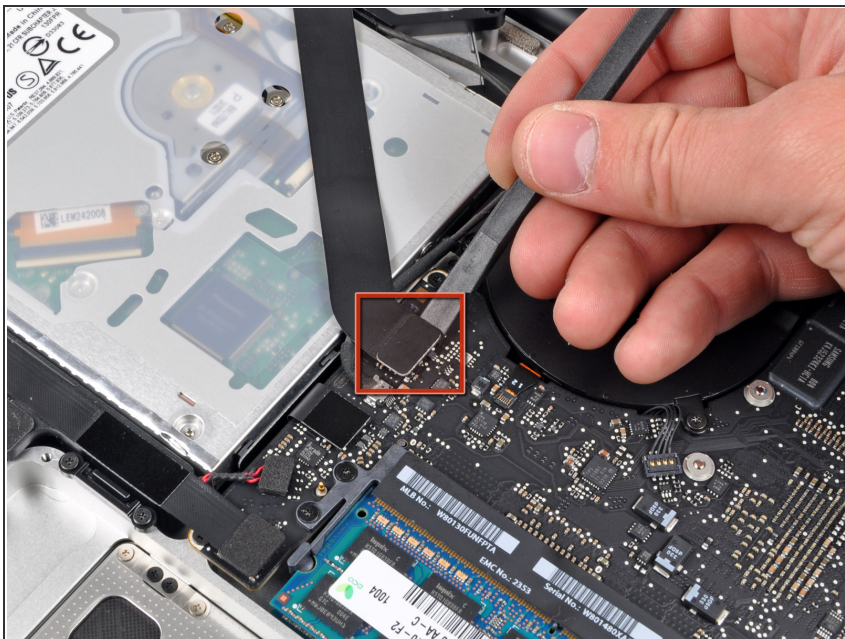
⚠ Do not try to completely remove the battery just yet.

Step 6



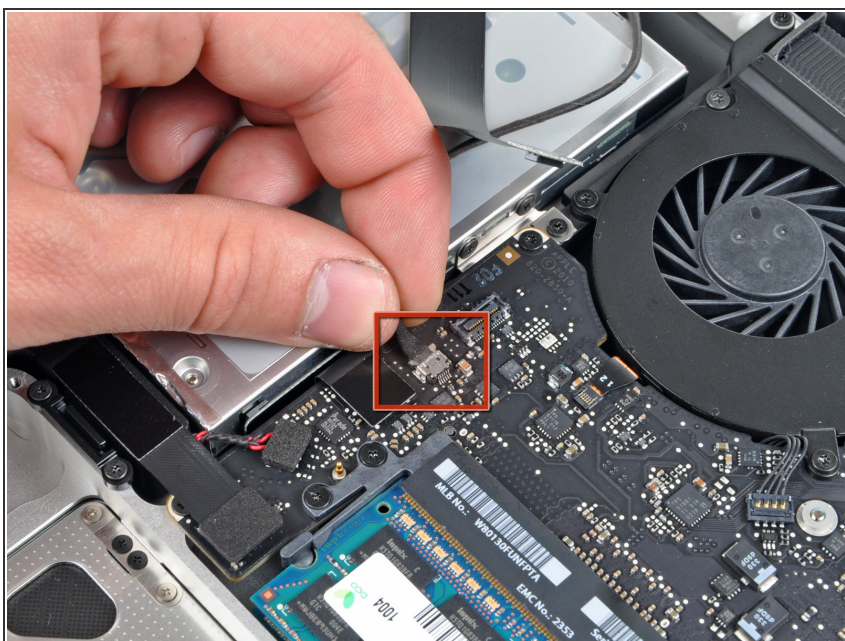
- Tilt the battery away from the logic board enough to access the battery cable connector.
- Pull the battery cable connector away from its socket on the logic board and remove the battery from the upper case.
- ⓘ Pull the battery cable connector away from the center of the logic board.

Step 7 — Optical Drive



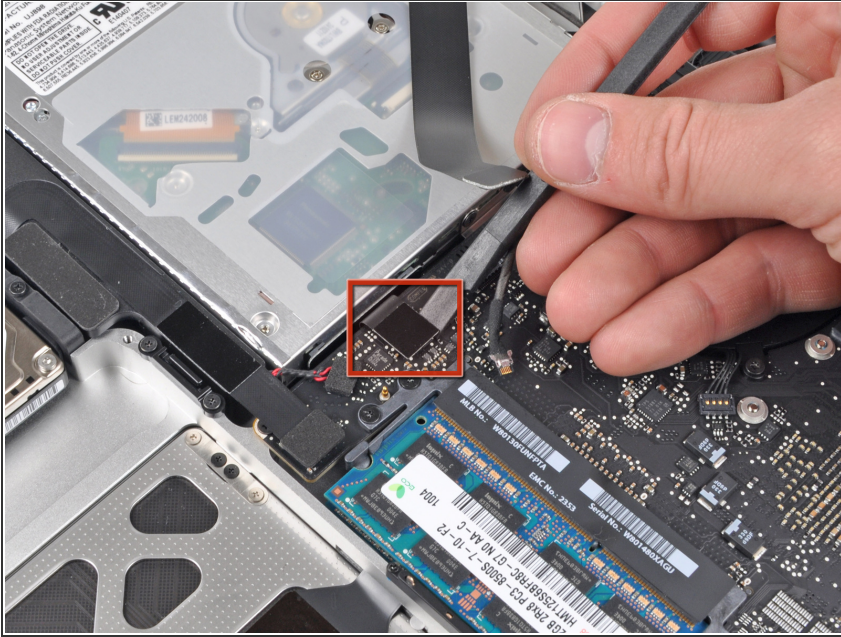
- Use the flat end of a spudger to pry the AirPort/Bluetooth ribbon cable connector up off the logic board.

Step 8



- Disconnect the camera cable by pulling its connector away from the socket (toward the optical drive) on the logic board.

Step 9



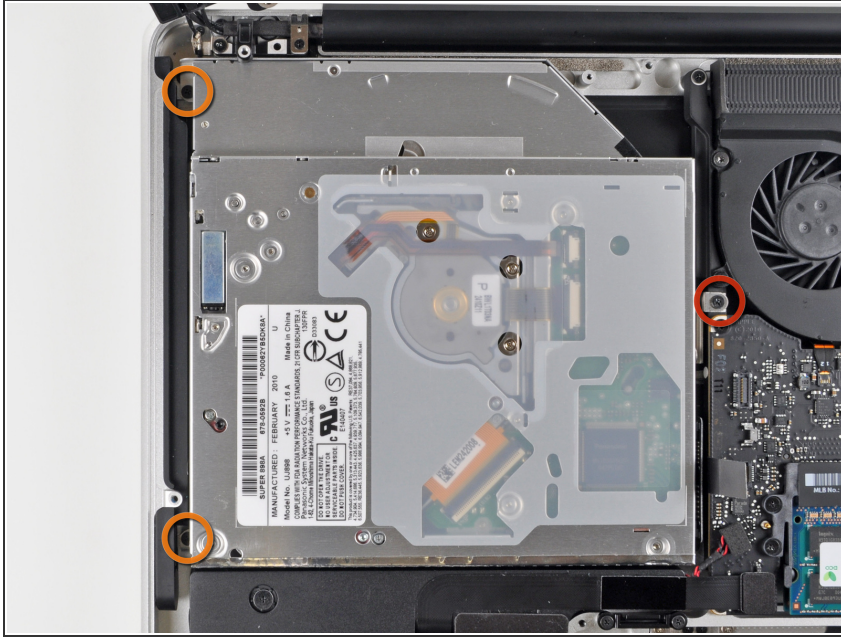
- Use the flat end of a spudger to pry the optical drive connector up off the logic board.

Step 10



- Remove the two Phillips screws securing the AirPort/Bluetooth board housing.
- Carefully rotate the AirPort/Bluetooth board housing (with AirPort/Antenna cables still attached) out of the lower case.

Step 11



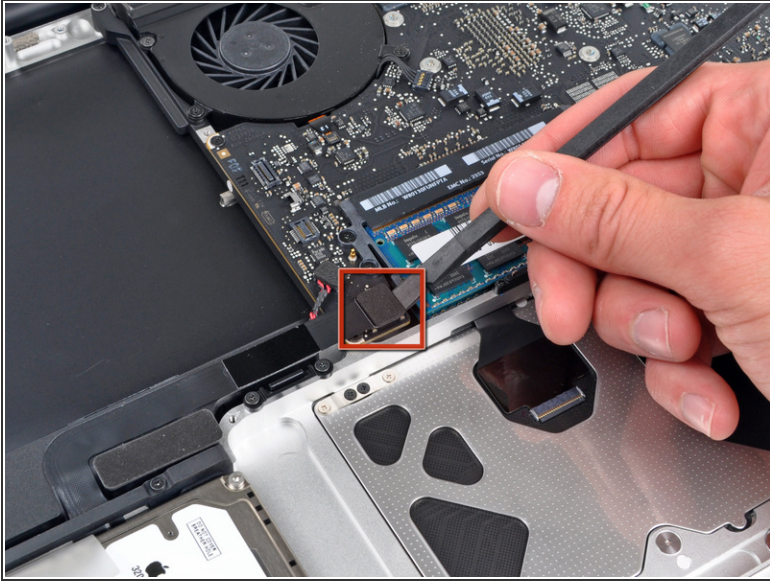
- Remove the following three Phillips screws securing the optical drive to the upper case:
 - One 4.5 mm Phillips screw securing the optical drive bracket to the upper case near the fan.
 - Two 2.5 mm Phillips screws securing the optical drive to the upper case near the optical drive opening.

Step 12



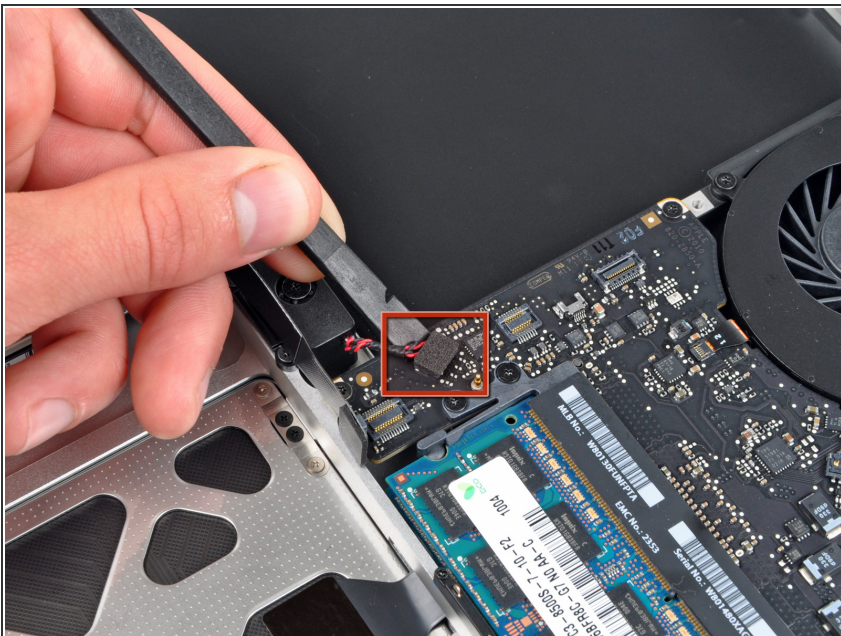
- Lift the optical drive near its connector and pull it away from the upper case to remove it from the computer.

Step 13 — Subwoofer & Right Speaker



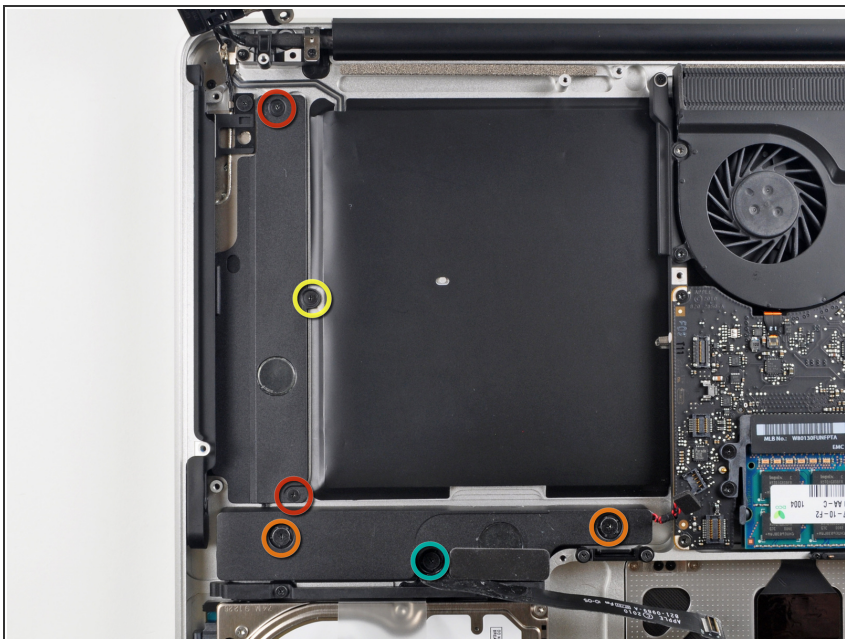
- Use the flat end of a spudger to pry the hard drive/IR sensor cable connector up off the logic board.
- Peel the hard drive cable up from the channel within the subwoofer and right speaker.

Step 14



- Using the flat end of a spudger, pry the subwoofer connector straight up off the logic board.

Step 15



- Remove the following six screws securing the subwoofer and right speaker to the upper case:
 - Two 3.2 mm Phillips screws.
 - Two 12.3 mm Phillips screws.
 - One 2.5 mm Phillips screw.
 - One 8.3 mm Phillips screw.

Step 16



- Lift the subwoofer and right speaker assembly out of the upper case.

Step 17



- ✦ Before securing the AirPort/Bluetooth bracket to the upper case, be sure the small plastic tab on its left edge is inserted into the small void cut into the black plastic optical drive opening.

To reassemble your device, follow these instructions in reverse order.

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